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## Generate Collection

L19: Entry 28 of 28

File: DWPI

Jan 4, 1996

DERWENT-ACC-NO: 1996-050827

DERWENT-WEEK: 199606

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Low threshold voltage <u>active matrix</u> liq. crystal display - with liq. crystal mixt. contg. di:fluoro:phenylene cpd. of negative dielectric anisotropy, etc.

INVENTOR: ICHINOSE, H; KOMPTER, M; PLACH, H; REIFFENRATH, V; TARUMI, K

PRIORITY-DATA: 1994EP-0109996 (June 28, 1994)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC
DE 19521483 Al January 4, 1996 N/A 021 C09K019/30
JP 08048978 A February 20, 1996 N/A 018 C09K019/42

INT-CL (IPC): C07C 25/24; C07C 43/225; C07C 69/753; C09K 19/02; C09K 19/30; C09K 19/42; C09K 19/44; C09K 19/46; G02F 1/13; G09F 9/35

ABSTRACTED-PUB-NO: DE19521483A BASIC-ABSTRACT:

An active matrix (AM) liq. crystal display consists of an AM diode arrangement together with a pair of parallel substrates enclosing a nematic liq. crystal medium consisting of (A) a cpd. of formula (I) with positive dielectric anisotropy and (B) a cpd. of formula (II) with negative dielectric anisotropy. R1 and R2 = alkyl, alkoxy, alkenyloxy, oxaalkyl or alkenyl with 1-15C; R3 = X-Q or as R1; Q = CF2, OCF2, OCF4, OCH2CFH, OCHFCF2, OCF2CF2 or a single bond; X = F or C1; Z1 and Z2 = -Ctriple bondC-, -COO-, -CH2CH2- or a single bond; rings A1 and A2 = 1,4-cyclohexylene or 3L3,5L4-phenyl-1,4-ene; rings A3 and A4 = 1,4-cyclohexylene or 2L5,3L6-phenyl-1,4-ene; L1-L4 = H or F; o and m = 0 or 1; and n = 1 or 2.

ADVANTAGE - Unlike the MIM displays of WO9301253 which have a  $\frac{2,3\text{-difluoro}}{2,3\text{-difluorotolane}}$  as component (B), the above displays with cpds. of formula (II) as B have low threshold voltages and high specific resistance.

## WEST

#### **End of Result Set**

Generate Collection

L19: Entry 28 of 28

File: DWPI

Jan 4, 1996

DERWENT-ACC-NO: 1996-050827

DERWENT-WEEK: 199606

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Low threshold voltage <u>active matrix</u> liq. crystal display - with liq. crystal mixt. contg. di:fluoro:phenylene cpd. of negative dielectric anisotropy, etc.

INVENTOR: ICHINOSE, H; KOMPTER, M; PLACH, H; REIFFENRATH, V; TARUMI, K

PRIORITY-DATA: 1994EP-0109996 (June 28, 1994)

#### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19521483 A1	January 4, 1996	N/A	021	C09K019/30
JP 08048978 A	February 20, 1996	N/A	018	C09K019/42

INT-CL (IPC): C07C 25/24; C07C 43/225; C07C 69/753; C09K 19/02; C09K 19/30; C09K 19/42; C09K 19/44; C09K 19/46; G02F 1/13; G09F 9/35

ABSTRACTED-PUB-NO: DE19521483A BASIC-ABSTRACT:

An <u>active matrix</u> (AM) liq. crystal display consists of an AM diode arrangement together with a pair of parallel substrates enclosing a nematic liq. crystal medium consisting of (A) a cpd. of formula (I) with <u>positive dielectric</u> anisotropy and (B) a cpd. of formula (II) with negative dielectric anisotropy. R1 and R2 = alkyl, alkoxy, alkenyloxy, oxaalkyl or alkenyl with 1-15C; R3 = X-Q or as R1; Q = CF2, OCF2, OCF4, OCH2CFH, OCHFCF2, OCF2CF2 or a single bond; X = F or C1; Z1 and Z2 = -Ctriple bondC-, -COO-, -CH2CH2- or a single bond; rings A1 and A2 = 1,4-cyclohexylene or 3L3,5L4-phenyl-1,4-ene; rings A3 and A4 = 1,4-cyclohexylene or 2L5,3L6-phenyl-1,4-ene; L1-L4 = H or F; o and m = 0 or 1; and n = 1 or 2.

ADVANTAGE - Unlike the MIM displays of WO9301253 which have a  $\frac{2,3\text{-difluoro}}{2,3\text{-difluorotolane}}$  as component (B), the above displays with cpds. of formula (II) as B have low threshold voltages and high specific resistance.

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WEST

#### **End of Result Set**

Generate Collection

L20: Entry 3 of 3

File: EPAB

Jul 18, 1996

PUB-NO: WO009621881A1

DOCUMENT-IDENTIFIER: WO 9621881 A1 TITLE: LIQUID CRYSTAL DISPLAY DEVICE

PUBN-DATE: July 18, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

LEENHOUTS, FRANS

N/A

WOLFS, PETER BAS ANTON

N/A

INT-CL (IPC): G02F 1/1333; G02F 1/136

EUR-CL (EPC): G02F001/136

#### ABSTRACT:

The invention provides <u>active-matrix</u> display devices with non-linear two-pole switching elements such as MIMs (15) or <u>three-pole</u> switching elements such as TFTs having a smaller difference in charge current at a different image content by using a suitable ( DELTA epsilon / epsilon ORTHOGONAL ). This leads to less burn-in of the image to be displayed. Moreover, a satisfactory transmission characteristic is obtained at a higher value of epsilon ORTHOGONAL . For TFTs it is then possible to use smaller auxiliary capacitances due to the higher values of (epsilon ORTHOGONAL ). The latter aspect may in turn be utilized to realise a larger aperture.

## WEST

#### **Generate Collection**

#### Search Results - Record(s) 1 through 20 of 25 returned.

1. Document ID: US 6183821 B1

L4: Entry 1 of 25

File: USPT

Feb 6, 2001

US-PAT-NO: 6183821

DOCUMENT-IDENTIFIER: US 6183821 B1

TITLE: STN liquid-crystal display

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME N/A N/A DEX Hirschmann; Harald Darmstadt N/A DEX Schupfer; Sven Aschaffenburg N/A N/A N/A DEX Reuter; Marcus Darmstadt N/A N/A DEX Rossdorf Reiffenrath; Volker DEX Schoen; Sabine Darmstadt N/A N/A

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.63, 252/299.66, 252/299.67, 349/186

Full Title Citation Front Review Classification Date Reference Claims KWIC Draw, Desc Image

#### 2. Document ID: US 6171665 B1

L4: Entry 2 of 25

File: USPT

Jan 9, 2001

US-PAT-NO: 6171665

DOCUMENT-IDENTIFIER: US 6171665 B1

TITLE: Liquid-crystalline medium

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Heckmeier; Michael Bensheim N/A N/A DEX DEX Schuler; Brigitte Haibach N/A N/A DEX N/A N/A Reiffenrath; Volker Rossdorf

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.63, 349/143, 349/196

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw, Desc	Image

#### 3. Document ID: US 6159393 A

L4: Entry 3 of 25

File: USPT

Dec 12, 2000

US-PAT-NO: 6159393

DOCUMENT-IDENTIFIER: US 6159393 A

TITLE: Benzene derivatives and liquid-crystalline medium

DATE-ISSUED: December 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tarumi; Kazuaki	Seeheim	N/A	N/A	DEX
Bartmann; Ekkehard	Erzhausen	N/A	N/A	DEX
Reiffenrath; Volker	Rossdorf	N/A	N/A	DEX
Schoen; Sabine	Darmstadt	N/A	N/A	DEX
Pauluth; Detlef	Ober-Ramstadt	N/A	N/A	DEX .
Schuler; Brigitte	Grossostheim	N/A	N/A	DEX
Poetsch; Eike	Muhltal	N/A	N/A	DEX

US-CL-CURRENT: 252/299.63; 252/299.61, 252/299.66, 570/128, 570/144

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### 4. Document ID: US 6146720 A

L4: Entry 4 of 25

File: USPT

Nov 14, 2000

US-PAT-NO: 6146720

DOCUMENT-IDENTIFIER: US 6146720 A

TITLE: Electro-optical liquid-crystal display

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pausch; Axel	Seeheim	N/A	N/A	DEX
Poetsch; Eike	Muhltal	N/A	N/A	DEX
Tarumi; Kazuaki	Seeheim	N/A	N/A	DEX
Huth; Anja	Riedstadt	N/A	N/A	DEX
Wachtler; Andreas	Tubingen	N/A	N/A	DEX
Beyer; Andreas	Hanau	N/A	N/A	DEX
Schuler; Brigitte	Grossostheim	N/A	N/A	DEX
Reiffenrath; Volker	Rossdorf	N/A	N/A	DEX
Bremer; Matthias	Darmstadt	N/A	N/A	DEX
Kompter; Michael	Riedstadt	N/A	N/A	DEX

US-CL-CURRENT: 428/1.1; 252/299.63, 252/299.66, 252/299.67

Fuli	Title	Citation	Front	Review	Classification	Date	Reference	KWIC   Drawl Desc   Image

5. Document ID: US 6146719 A

L4: Entry 5 of 25

File: USPT

Nov 14, 2000

US-PAT-NO: 6146719

DOCUMENT-IDENTIFIER: US 6146719 A

TITLE: Liquid-crystalline compounds, and liquid-crystalline medium

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poetsch; Eike	Muhltal	N/A	N/A	DEX
Schuler; Brigitte	Grossostheim	N/A	N/A	DEX
Heckmeier; Michael	Muhltal	N/A	N/A	DEX
Reiffenrath; Volker	Rossdorf	N/A	N/A	DEX
Binder; Werner	Dieburg	N/A	N/A	DEX
Krause; Joachim	Dieburg	N/A	N/A	DEX

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.62, 252/299.63, 252/299.67

Full Title Citation Front Review Classification Date Reference

KWMC Draws Descriptinge

6. Document ID: US 6083573 A

L4: Entry 6 of 25

File: USPT

Jul 4, 2000

US-PAT-NO: 6083573

DOCUMENT-IDENTIFIER: US 6083573 A

TITLE: Liquid-crystalline medium

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

STATE ZIP CODE COUNTRY NAME CITY Tarumi; Kazuaki N/A N/A DEX Seeheim Schuler; Brigitte Grossostheim N/A N/A DEX Poetsch; Eike N/A N/A DEX Muhltal

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.63

Full Title Citation Front Review Classification Date Reference

KWIC Draw, Desc Image

7. Document ID: US 6080452 A

L4: Entry 7 of 25

File: USPT

Jun 27, 2000

DOCUMENT-IDENTIFIER: US 6080452 A

TITLE: Electro-optical liquid-crystal display

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

STATE ZIP CODE COUNTRY CITY NAME N/A N/A DEX Tarumi; Kazuaki Seeheim DEX N/A Beyer; Andreas Hanau N/A DEX Muhltal N/A N/A Poetsch; Eike

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.62, 252/299.63, 252/299.66, 252/299.67, 349/132

Full Title Citation Front Review Classification Date Reference KWIC Draw, Desc Image

8. Document ID: US 6080451 A

L4: Entry 8 of 25

File: USPT

Jun 27, 2000

US-PAT-NO: 6080451

DOCUMENT-IDENTIFIER: US 6080451 A

TITLE: STN liquid crystal display

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY Darmstadt N/A N/A DEX Hirschmann; Harald DEX Schupfer; Sven Aschaffenburg N/A N/A Reiffenrath; Volker Rossdorf N/A N/A DEX DEX Schoen; Sabine Darmstadt N/A N/A

US-CL-CURRENT:  $\frac{428}{1.1}$ ;  $\frac{252}{299.61}$ ,  $\frac{252}{299.63}$ ,  $\frac{252}{299.66}$ ,  $\frac{252}{299.66}$ ,  $\frac{252}{299.67}$ ,  $\frac{349}{180}$ ,  $\frac{349}{186}$ ,  $\frac{349}{76}$ 

Full Title Citation Front Review Classification Date Reference

KMC Draw Desc Image

9. Document ID: US 6063456 A

L4: Entry 9 of 25

File: USPT

May 16, 2000

DOCUMENT-IDENTIFIER: US 6063456 A

TITLE: STN liquid-crystal display

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME N/A N/A DEX Darmstadt Hirschmann; Harald DEX N/A N/A Aschaffenburg Schupfer; Sven N/A N/A DEX Reiffenrath; Volker Rossdorf N/A N/A DEX Darmstadt Schoen; Sabine

US-CL-CURRENT: 428/1.1; 252/299.61, 252/299.63, 349/179, 349/181

Full Title Citation Front Review Classification Date Reference

KWC Draw Desc Image

10. Document ID: US 6056894 A

L4: Entry 10 of 25

File: USPT

May 2, 2000

US-PAT-NO: 6056894

DOCUMENT-IDENTIFIER: US 6056894 A

TITLE: TN and STN liquid-crystal display

DATE-ISSUED: May 2, 2000

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME N/A N/A DEX Hirschmann; Harald Darmstadt Weller; Clarissa Darmstadt N/A N/A DEX Reiffenrath; Volker Rossdorf N/A N/A DEX

US-CL-CURRENT: 252/299.63; 252/299.61, 252/299.66, 252/299.67, 349/179, 349/182

Full Title Citation Front Review Classification Date Reference

KWC Draw Desc Image

11. Document ID: US 6054193 A

L4: Entry 11 of 25

File: USPT

Apr 25, 2000

DOCUMENT-IDENTIFIER: US 6054193 A

TITLE: Supertwist liquid-crystal display

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

COUNTRY CITY STATE ZIP CODE NAME N/A DEX Hirschmann; Harald Darmstadt N/A DEX Reuter; Marcus Darmstadt N/A N/A Rossdorf N/A N/A DEX Reiffenrath; Volker

US-CL-CURRENT: 428/1.2; 252/299.61, 252/299.63, 252/299.66, 252/299.67, 349/178, 349/179, 349/180, 349/182

Full Title Citation Front Review Classification Date Reference

KWMC | Drawu Desc | Image |

12. Document ID: US 6045878 A

L4: Entry 12 of 25

File: USPT

Apr 4, 2000

US-PAT-NO: 6045878

DOCUMENT-IDENTIFIER: US 6045878 A

TITLE: Electro-optical liquid-crystal display

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Seeheim N/A N/A DEX Tarumi; Kazuaki Beyer; Andreas N/A N/A DEX Hanau Reiffenrath; Volker Rossdorf N/A N/A DEX Muhltal N/A N/A DEX Poetsch; Eike

US-CL-CURRENT:  $\frac{428}{1.2}$ ;  $\frac{252}{299.65}$ ,  $\frac{252}{299.65}$ ,  $\frac{252}{299.65}$ ,  $\frac{252}{299.65}$ ,  $\frac{252}{299.65}$ ,  $\frac{252}{299.65}$ 

Full Title Citation Front Review Classification Date Reference

KWWC Draw Desc Image

13. Document ID: US 6036884 A

L4: Entry 13 of 25

File: USPT

Mar 14, 2000

DOCUMENT-IDENTIFIER: US 6036884 A

TITLE: Liquid-crystalline medium

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME N/A N/A DEX Tarumi; Kazuaki Seeheim N/A DEX Schuler; Brigitte Grossostheim N/A Rossdorf N/A N/A DEX Reiffenrath; Volker

US-CL-CURRENT: 252/299.63; 252/299.66



14. Document ID: US 6028655 A

L4: Entry 14 of 25 File: USPT

US-PAT-NO: 6028655

DOCUMENT-IDENTIFIER: US 6028655 A

TITLE: TN and STN liquid-crystal display

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME N/A N/A DEX Weber: Georg Erzhausen DEX Hirschmann; Harald Darmstadt N/A N/A N/A N/A DEX Reiffenrath; Volker Rossdorf DEX Patwal; Ursula Rossdorf N/A N/A N/A DEX Zimmermann; Dagmar Gross-Gerau N/A

US-CL-CURRENT: 349/182; 252/299.61, 252/299.63, 252/299.66, 252/299.67

Full Title Citation Front Review Classification Date Reference XMC Draw Desc Image

15. Document ID: US 5997767 A

L4: Entry 15 of 25 File: USPT Dec 7, 1999

Feb 22, 2000

DOCUMENT-IDENTIFIER: US 5997767 A

TITLE: STN liquid-crystal display

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

ZIP CODE CITY COUNTRY STATE NAME N/A N/A DEX Hirschmann; Harald Darmstadt N/A DEX Darmstadt N/A Weller; Clarissa Reiffenrath; Volker Rossdorf N/A N/A DEX

US-CL-CURRENT: 252/299.63; 252/299.01, 252/299.6, 252/299.66, 252/299.67, 349/186

Full Title Citation Front Review Classification Date Reference RWC Draw. Desc Image

16. Document ID: US 5993691 A

L4: Entry 16 of 25 File: USPT Nov 30, 1999

US-PAT-NO: 5993691

DOCUMENT-IDENTIFIER: US 5993691 A

TITLE: Electro-optical liquid crystal display

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pausch; Axel	Seeheim	N/A	N/A	DEX
Poetsch; Eike	Muhltal	N/A	N/A	DEX
Tarumi; Kazuaki	Seeheim	N/A	N/A	DEX
Huth; Anja	Riedstadt	N/A	N/A	DEX
Wachtler; Andreas	Tubingen	N/A	N/A	DEX
Beyer; Andreas	Hanau	N/A	N/A	DEX
Schuler; Brigitte	Grossostheim	N/A	N/A	DEX
Reiffenrath; Volker	Rossdorf	N/A	N/A	DEX
Bremer; Matthias	Darmstadt	N/A	N/A	DEX
Kompter; Michael	Riedstadt	N/A	N/A	DEX

US-CL-CURRENT: <u>252/299.63</u>; <u>252/299.61</u>, <u>252/299.66</u>, <u>252/299.67</u>, <u>349/123</u>, <u>349/182</u>

Full Title Citation Front Review Classification Date Reference KWC Draw Desc Image

17. Document ID: US 5993692 A

L4: Entry 17 of 25 File: USPT Nov 30, 1999

DOCUMENT-IDENTIFIER: US 5993692 A

TITLE: Liquid-crystalline medium

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

ZIP CODE STATE COUNTRY NAME CITY N/A N/A DEX Seeheim Tarumi; Kazuaki N/A N/A DEX Schuler; Brigitte Grossostheim N/A N/A DEX Schwarz; Michael Weiterstadt N/A N/A DEX Mackert; Peter Darmstadt

US-CL-CURRENT: <u>252/299.63</u>; <u>252/299.66</u>

Full Title Citation Front Review Classification Date Reference

KWMC | Drawl Desc | Image

#### 18. Document ID: US 5976407 A

L4: Entry 18 of 25

File: USPT

Nov 2, 1999

US-PAT-NO: 5976407

DOCUMENT-IDENTIFIER: US 5976407 A

TITLE: Electro-optical liquid-crystal display

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME N/A N/A DEX Tarumi; Kazuaki Seeheim Beyer; Andreas Hanau N/A N/A DEX Rossdorf N/A N/A DEX Reiffenrath; Volker

US-CL-CURRENT: 252/299.01; 252/299.61, 252/299.62, 252/299.63, 252/299.64,

<u>252/299.67</u>

Full Title Citation Front Review Classification Date Reference

KWMC Draw Desc Image

#### 19. Document ID: US 5976404 A

L4: Entry 19 of 25

File: USPT

Nov 2, 1999

DOCUMENT-IDENTIFIER: US 5976404 A

TITLE: Supertwist liquid-crystal display

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

COUNTRY CITY STATE ZIP CODE NAME DEX Hirschmann; Harald Darmstadt N/A N/A DEX Weller; Clarissa Darmstadt N/A N/A DEX Rossdorf N/A N/A Reiffenrath; Volker

US-CL-CURRENT: 252/299.01; 252/299.61, 252/299.63, 252/299.66, 252/299.67

Full Title Citation Front Review Classification Date Reference KMC Draw. Desc Image

20. Document ID: US 5968412 A

L4: Entry 20 of 25

File: USPT

Oct 19, 1999

US-PAT-NO: 5968412

DOCUMENT-IDENTIFIER: US 5968412 A

TITLE: Liquid-crystalline medium

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME DEX Tarumi; Kazuaki Seeheim N/A N/A Schuler; Brigitte Grossostheim N/A N/A DEX DEX N/A Poetsch; Eike Muhltal N/A

US-CL-CURRENT: <u>252/299.63</u>; <u>252/299.66</u>

Full Title Citation Front Review Classification Date Reference KMMC

KWMC | Draw Desc | Image

#### Generate Collection

Term	Documents
POSITIVE.DWPI,TDBD,EPAB,JPAB,USPT.	779139
POSITIVES.DWPI,TDBD,EPAB,JPAB,USPT.	5498
DIELECTRIC.DWPI,TDBD,EPAB,JPAB,USPT.	307051
DIELECTRICS.DWPI,TDBD,EPAB,JPAB,USPT.	14880
(3 AND (POSITIVE ADJ DIELECTRIC)).USPT,JPAB,EPAB,DWPI,TDBD.	25

Display

20 Documents, starting with Document: 21

Display Format: CIT

Change Format

#### **Generate Collection**

#### Search Results - Record(s) 21 through 25 of 25 returned.

21. Document ID: US 5948319 A

L4: Entry 21 of 25

File: USPT

Sep 7, 1999

US-PAT-NO: 5948319

DOCUMENT-IDENTIFIER: US 5948319 A

TITLE: Nematic liquid crystal mixtures

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Tanaka; Yukiomi Numata; Hiroshi Atsugi Yokohama N/A N/A N/A N/A JPX JPX

US-CL-CURRENT: 252/299.66; 252/299.63

Full Title Citation Front Review Classification Date Reference

KOMC Draw Desc Image

22. Document ID: US 5919396 A

L4: Entry 22 of 25

File: USPT

Jul 6, 1999

US-PAT-NO: 5919396

DOCUMENT-IDENTIFIER: US 5919396 A

TITLE: Electro-optical liquid-crystal display

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME Tarumi; Kazuaki Beyer; Andreas

CITY Seeheim STATE N/A

ZIP CODE N/A

COUNTRY DEX

Poetsch; Eike

Hanau Muhltal

N/A N/A N/A N/A

DEX DEX

US-CL-CURRENT: 252/299.01; 252/299.61, 252/299.62, 252/299.63, 252/299.66, 252/299.67, 349/132, 349/191

Full Title Citation Front Review Classification Date Reference

KMC Draw, Desc Image

File: USPT

Jun 30, 1998

Document ID: US 5772914 A

WL4: Entry 23 of 25 1 of 3

DOCUMENT-IDENTIFIER: US 5772914 A

TITLE: Chiral dopes

DATE-ISSUED: June 30, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pauluth; Detlef	Ober-Ramstadt	N/A	N/A	DEX
Bremer; Matthias	Darmstadt	N/A	N/A	DEX
Plach; Herbert	Darmstadt	N/A	N/A	DEX
Weber; Georg	Erzhausen	N/A	N/A	DEX

US-CL-CURRENT: 252/299.6; 252/299.01, 252/299.61, 252/299.63, 252/299.64, 252/299.65, 252/299.66, 252/299.67, 544/298, 548/136, 549/369, 568/626, 568/647, 570/129

Full	Title	Citation	Front	Review	Classification	Date	Reference	K000
		1					٠	

KWIC Draw, Desc Image

24. Document ID: US 5762828 A

L4: Entry 24 of 25 File: USPT

US-PAT-NO: 5762828

DOCUMENT-IDENTIFIER: US 5762828 A

TITLE: Liquid crystal medium

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Tanaka; Yukiomi Kanagawa N/A N/A JPX
Numata; Hirosh Yokohama N/A N/A JPX

US-CL-CURRENT: 252/299.63; 252/299.01, 252/299.66

Full Title Citation Front Review Classification Date Reference

KWIC Draw, Desc Image

oK

25. Document ID: US 5744060 A

Entry 25 of 25 File: USPT

Apr 28, 1998

Jun 9, 1998

DOCUMENT-IDENTIFIER: US 5744060 A

TITLE: Liquid-crystalline medium

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tarumi; Kazuaki	Seeheim-Jugenheim	N/A	N/A	DEX
Schuler; Brigitte	Grossostheim	N/A	N/A	DEX
Bartmann; Ekkehard	Erzhausen	N/A	N/A	DEX
Pauluth; Detlef	Ober-Ramstadt	N/A	N/A	DEX

US-CL-CURRENT: 252/299.63; 252/299.66

Full	Title	Citation	Front	Review	Classification	Date	Reference

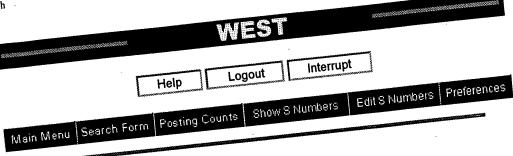
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USPT,JPAB,EPAB,DWPI,TDBD	pch-n\$3ff	0	<u>L12</u>
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USPT,JPAB,EPAB,DWPI,TDBD	15 and 19	1	<u>L10</u>
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